

Sulpas and Cleadoras.

night, get a large number

of atlantas, a falpa about

described, a number of small crustucea, one with an orange re mass dolled with scarlet, in the Throw two or three small carmarias with the parts about the mouth of a brilliant scarlet The intestinal canal wine colf or nucleus hoved purpleabove in bottle no! In 141 Kat 41 n. P.M. Det a few pe Hyaleas and Salpas, a curious Jish and a feather covered with fish offor Lept 7. tottle 2 Sept. 13, Lut. 47, Low. 148. 30' See two furscal playing in the water. Many velettar today & yesterday. Sept. 14 Las 48:37 Lon 15-20 3', a small land vivo a Passeventus with the from in well defined streaks, the four streaks in the head very yellow, and extending

Partwichersis

Alech well back, with red feet flew around the vessel and lighter on deck today The species is I feel quite pure the same which I called ". savanna in my alaska Catalogue. The nearest land is five hun the wind the w, not very strong but has been blow ing harder - after some trouble secure the bird and but it in a case protempore 8kin + sternin no. 3 another land tind alighted on the ship in the evening but flew off again and was not recognized in The darkness. Sur several gulls or Procellaniae during the day. Sept. 15 a small blue fish with a double

row of peculiar punctures on the abdorner was waster an ward, put it in bottle no. 2, no. 4. gry, Dionedea July the Instice that its ordinary 1 method of sustentation when there is a breeze, consists of rising against the winds and falling with it, the being kept up sometimes for hours with hardly a single stroke of the wings. It risks only against the wind except in rare cases when to decentry momentum is sufficient to raise it slight ly for a short distance, or when the reflex eddy from a high surge is strong enough to give it a slight life. It uses its broad webled

feet to some extent in balan cing itself when turning with we the wind, also by poking themp down at a right angle with The body to check its connel especially when alighting my The water. Generally while in flying they are stretched out behind with the webs Extended and assist the bird materially in surding itself, the tail being shorted than the extended feet. It noes by extending its · wrongs and running against the went over the water until it is sufficiently raised abrove the water to use it write without welling them. a flock of font or five have accompanies us for Californa sy far but will probably soon leave

us, as I have noticed that the aleutian Islands. of Their eyesight is exceedingly acute, they can distinguish a discolored sport a yard across, in the water, from h a distance of it least ten miles, much furthers than our unaided eyes la causee the bend itself. Its flight in calm weather consists of a series of about give or six short sharp strokes at intervals of a second on more aparts fol loved by a short period of comparative quies cence They left us in Bat 53 n-Sept 21. Sounded in Lat. 53,00 how 163.35 nearly ne end of trjulde heaving nw/2 W true 64 miles 112 brus no bottom

terry, water at surface 48. repl 22. Hove to at 5.30 abouton volcario bearry nby W, by compass and. Old Harris WW do sounded gettery 110 pms soft muddy bottom, temp. it burface 49.0 Sept. 24. See at Mr. Bentels house several Austriania or Jachon, Rhynchmeller, Margante with a very open umbilious different from any species I have ever seen and a number of other sheets. Get several Pechens out of a flounder. Pick up a large Bardin nuttalla on the heach - Fet some mussels with Collisella patina attached to them Fresh over the side of the redsel and eater a codfish three placembers

of the scriptind a small (halibut, and a skale with re bounish dive back white belly, small stellar spic ulae scattered ater the back a now of necurried. spines in the median A line of the rack and 2 = moderately dange autesians and one amall jourtering dersal fin near The end of the tail which was sinn ply printed. Therene save the okull and teeth has s. Harrington gets a mumo her of yearing and a 5 rough star-fish & some parasities from the cod-Sept 26. Dec Cartino 9+60. dienn, Sazidonnos ogualidas Ompuna suricola, Collisch la patrira, Tapes ataminea

the plover bay mes made with whale ribe. flye bernes I salmon ternes abuntant on hills_ Narryton gets a lot of Sunofleas + flowers-Sept. 29. Let a very pretty exercine of Topes - Draw the same in the out and get a beautiful little brown " sculpin with gold-colored Sports and a few other small fish. also an humble her of large arge. ore sevent Macomas and a Volutharpa ampullacen in the beach -Carrieron nuttalla abuntant Sept 30. Harrington grestisting his catches several species of salmone date one a brook Cord -Oct 1. Sourch the hillsides + por a few beetles, a

leich and time small land thells, Inpilla, Vitrino succinea to a also a few diplera Oct. 5, Mr. Bendel sends is a reo fox 27 and some arolineris 24 Harelda 22 glacia lis, Histrioneens23/12 quates and Lampronetta (21) Fischer i? all in autumn plumage. They are britly tom toloods but I preserve the skins to "identify the speciesbot 9 40 to Captains How no examine the reported the rocks south & east of Capturus Harbor to be all masses of Eyemite girth a perpendienter dip, and

cleavage planes in every direction in mountain masse soo to 2000 H. high - ges een some of these and find nothing but symited in every direction over lack conformably by them beds of clay & sand with hydrate peroxide of iron in some places at very superfice al & very redent former tion containing descriped leaves of frass & other vege taking of occent origin These day beds were insig sufreaut in extent and limited to small depress cons in the mountain tops. From the so called amber Take which was a small pard on top of a squitie nivertain about 2000/ above the tra - no him

of any tertiary deposites. There were Three lakes -Oury cheff and another into the there which em phier on the other side of The divide apparently in Find the high Huff on the Twest side of Lake Sary cheff, to be conformerate(6) in beds nearly horizon tal and very distincthe marked on the out crops Neight above covered with hard aftered pandof burn blickleberry bustes + small willows for free green - more more Oklain an men in diameter. Oct. 12. One of the aleuts trongs in six or eight anas bookhas and a green wing

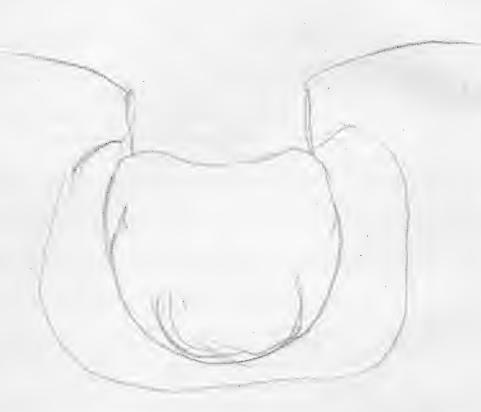
me a mareca americano 35 The ducks are just beginning Pickup some fine Cardium a mactra tettera macina, mya truncata and a pray ment of a Machaera in the heart-Act. 14. Get some shells and codfish" skulls on the heach, mr. Hodyckins gets some small fish in The seine and sets it for herring. Mr. Bendel kills a small of wrew no 26, which I preserve though to both condition Oct. 17 m Bendel brugs in 2 melospiga insignis, (323) 2 owls, a malland & green wriged teal.

Oct. 18. Mr. Bendel sends me two specimens of Hydrobata. (28 29 + sternum), looking like mexicana. Oct. 19. Harring ton, foce out with the from thills a young Jule () three melospega (34-1-6 + stoma) and two sans pipers (37-8 Isternal getting also some Jew Thells of macelo - mis ome small pol () out of the gailled erry-Oct-22. So out with my from + succeed in getting six ovens protably J. alastenses-(nos 94-8-100) also a. number of shells. I the young of al buccurio in the orricapsules sometimes me I sanctimes three in one capque the shell can taining there or four whorks

the island east of Kyska are too for south there is also a rect not lais down in the charts -St. Paul + George are 16 miles too far east in the "Phoca" equestros is common on the asiatic coast and also around Boring Island comes as for east as Univ mak in unter and has been killed in Unalashka on me occasion. There is said to be an ancient village in adalh with the utensils masks to laying us of nextenday atantola the atka men knowwhere if is I can be taken with their single bedarks to find it I reliem by them delves There is native copper

to befound in Umnak. a dapanese funk with three sailors drifter ashore on adakh after being nine months at sea, dismasted + moder tost by a typhoon when found by a hunting party of alcute they had 15 ds of nice left a lot of paper money to try confe with at the port towhich They were tound trome iron cash that twon, up their deel for freel. They go down by the Hutchinson in a few weeks. They had nothing but a small compars, as chart or other assistant to navi fation. Oct. 23. Capt. Partneye gives me a Hybritata of (no 49) which he have just what -

 Get a fewthings from a ast of the driver off Rock smull terriores crustace ours. Pill. Mini some doll ad ascidians, Sytularia de on a piece of kelp near Baileys & get in the beach a mutilated opecimen of what appears to be a species of Pinnoctopies, it measures, 2 Rows alkemate suckers about 50 in remoter as for and visible, largest 21/2 in across Color white occellates with survivolus of Wiels red in dots. Rapple on the motor adja of grown or more thank on to to well between there timbered is Timohus by no at triple inds black 5 in reterior then I or wounded papella most belling



The body was byshaped with a a brond (3 to 5 in) flap all around it with no notch I wrow behind, a careful search revealed no assides. The intestines contained long milk white coils appartently port of the organism pellucio gellow things looking like intestinal worms - V Porcerve there also the jaws, The rabula was lost the one of the suckers (no 102/154 bet a per shells and some Col. 25 - Drope in the P. M. sta grad lot of shelli but notice the absence every when of the annally species, Present must of them in alcohol his 113-132.

Set. 26. get a few shells of coskulls on the beach also some small landshells on the bluff south of the times. Mr. Modukins kills a black duck with red legs thes, Hack webs with a peculiar red twill with a peculiar red twill white on the wrips. Also a growing marca americana the former duck is very some with white iris. Find sphage with white iris. Find sphage with white iris.

bet. 21. Let some wood shells from west side of amaknost including femmio milia, Bue ciliatura, 2 Chrysodomi. Volutopsis Beringi- Modiola modishes, Sagreava anchica Myhlus corelis - Margarite pupilla Frichotropis insignis many fine Caro. Laperousii to.

nov, 1). Mu Bensel reports seeing a block of Lampronettes and also with them a lot of the black duck with the might yellow bull on the bill He sent me sevaral Harelda flacialis and the black duck with red tow & will of which a head was sent herae_ Dec 24. From Cynthia junforms in The beach - arimal of Maconer appliance in shell much softened two long smooth searlet sighers one shorter there the other which was about to in too far fine to tell of papellinee. Hairry In get a cuttle like that before mentioned ary knocemm beautiful pink or gellow made -

Plactrophanes nivalis (8h) Troglodighes alascenis - (8h) Lencosti che griscinnoha Melvepisa insignis. (8h) Lagopus albus ! (musica) (8h) & Relidina maritima --Bal- Mychea Mirea Brachyotus Cassini 35 Habaetus kenercephalus (Malt) aguita canadenses. Herence calus spatisting 5/9 Corons carnivorus Polyaticka Pheller Harelda glacierlis (4) Mireland Viene notinal. anas boschas_ Lampronetta Fischen ? Querquedala discorre. 18/1) Netten carolinersis. Histornices torquatus Musea americana Tricingual annibated and

Unalashigat seen-Enouterd. 94-95, 100, 26, 249,238, Win 245,246,248, 253 Funch 32-36,250,418 Sparrow Sparrow 9rouse 38.105-109.37.254-Junt piper 30-31 Seen plenty Whitehead agle seen, I killed but wet oparounaux Reported? Carger Hawk Plinty award village Raven-273, 245.298.-9 Stollers eider 296 Old Squand 251 Hellownose Surf Duck. 142 , top While winger coch. Seen plenty, dead, in alest hard vallace 21?

Reported Blue unique teal

24

23, 304:

Bald parte 302-3 largefreen hear - Merganeer

Stareck (Chica) Oetal (Chica) Dutage Bucephala ou un econo Perty hymtens prdiceps to cooperi -Graculus violaceus (8h) Una californica M) Phaleris eristatelles? (Sh) There sp. Brachyohampelus manning somation spectabilis Larris argentalies? leverplens? (1) Larris Krachyrychus? & Rissa? (Kolzubni? 82) Stercorarius Vasser culus (unen?) secure Hydrobala mèxicana (SL) (Mormon archious of corniculatus)
(Sh) Seen Ancer sambellie? Hoematopus niger (8h) [8] Humbo breolor Sonotrichia por comala (8h) Passerculus Ap. 1867 (Restort diver (Sterna macrina \$ Tollow leas

301 Blackheader our Thoug Diver Sea quail 294 291. 300. 292 healt diver 224 147 Lag. 3190 Eda Duck complety Black types smalle Die seen grow full 3 1 off shore Free fourson 28.29.99. Ungel econ-Oct. been, rotten. Albatros 295-22 Duck Dec, 31, 90 reported, feel yellow, till flesh. Spring, seen & recognized Innel abundant " ") here deen " " I one " like lingasp

In 23.1872 - Burdel reports an erder with top of head gray cheeks green with some black crange knot on vill, breast vange brown, wings dark Paul Rapin recognizes the Lampronella from the figure has seen it at St. Michaels and rarely here but says it is very sky, He distiny wishes it perfectly from The other eiders -See plenty of small sand pipers. The Lenevstietes are getting mother plumage-Capt Hall Junts a price of The pur of a squad forerer or five inches by med two antahalf wide, it must have been of enomous sige find another piece i) the like shell on Worde amaknak

March 3. 1842. The layer senducks are leaving and becoming scarcer every vary The smaller over still driver -The secrept was are said to breed -The weeky white about May 1-10 and to hatch about dime! The gulls are said to have a second hoor in July argust -Find on The while of amakask a whole lower whole with column of the draphella of which a woon aleen was present picked up + referred to ballout or whalus-It is very like I majellavina of a level purposes while with 4-6. while very slunder with three charge plants in the cohum

B= stratum of refrantistek-B3 in coarse petitle -B4 in marine shells -B5 in soft sundrock -B4 in round petitle engline-B7 Statum sundry soft wek B8 Coal, the thick layers

Coal Harbor Muga Delaris. april 2. 1872_ Examine the formations on The west side of the Bay which contain lignite bers. I'm The cliff which is between five and six hun dred feel high. Composed as Jollows - from top down A. Conglomerate of frue politics B. de flanger boulders C. Girthin friable soundy makes A more like to to two feet very everse de (The above take 200 ft) Fr. 4 in sandy shale vegetable remains very industrict a 40 ft of thin leaves of lignite aggregates into three series of 2 ft each T intertenced with clay

List of malluren of thoulashka Edd from Sitka fauna. Mucha tennis? Placemanna me or eschistere Killing La Part Militaria Savide de Aqualidas.
Minologia prima prima l'inches.
La Perrandi.
Perrandi. Yugina Kinath Chypton Herneus Barcinum ganeum Chryse donnis directions Porine oregonerais Volutohaper am pullacea Frichotropis concellations Consellaria moderta Fresher Mitters in might contracting Constitutionis + p. across potina pella a ilva

Acron Silla fanna Ocmata rensena Constatrimatria en accidence

Purpour ennalicent des

Marquida il lata Astyrio gamapata?

From Mo lie france, Macoma inconspicua -" adenticla -Serripes granlandices -Cartitum is lauche our -Moldier amygrala thrascopinnis " danceolater Muna son processa in trancala Orythems edulis. Enxicara photatis ve Venezicartin trocalis Instoria munita modificaria lacrigata Mythe edulis acuraen testabinalis Frechotropis borralis Mesalia Inchea " retiredata Velutina lacorgata

natica clause

Fram archie Buccinim Placeale Stender white wither Margarita helicina.

Lacuna vincta Bela sp-Bela sp. admete &p. Fornatina sp. Odvetomia op. Chrysodomus of five motory niger Chilon ruber liveta alla

alentean Jama Macoma capitania recordate ? Rhymehmeila ep Ferebrutula sp; pink (majusula) Attleta phonementa Pecton militus Panopaea sp. ?; muren. Enchotropio inignis Oropidula prantis acruaca sypantica Velutina corraces Chygardonia consuntinger Buccinum Pinen in up getter } most growing M. genro - Remoted Scapulla of Cancellaria ap-Volutopies Bereije

Malashka Janna

Marjanta opn,

Printoctopus op

Buccimum humicottie

Moerchiamum

Lotigo i ep.

Small landahello

Residence a very few Scalarian Rentation Agriculture Agriculture Scalarian Propries 100.

Bittime Conthispis 100.

Licenome

gravel, sand, te in layer of variable thickness, with a good deal of pyriles + peroxide of iron -H Then 150 feet of sand stone so soft as to he really sand & gravel hes - without many large stones-I succession of heds similar to Go but none of the coal exceeding I inches in theckness and most of it much formbed and with a freat deal of persite with impressions of learn K - below low water there is sun for another

nos 384 a le gran The layer

cold seam .. The coal is hignitic and diffus in quality in def ferent weather - The best is It the south of the house where it has been spones by the Co. Here There are 3 vens of about a foot each in thickness composed of fine leaves but hard It orlis except when weathered. between them are about ten Jest of sand and gravel and over the middle one four feet of very frable blue shall over the upper one is a 4m layer of sandy shale containing enpres sims of leaves of grasses hemlock - aroto staphy hos



Vaccinium sp., artorvitae, a fern? and some others unknown to me, tamel? + shar herry - te -The Eval is nowhere thick in the clear - it continues a food deal of sulphur term t sphils very easily into Then sheets - The west etone is unstable. all the strata dip to the westward from 5 to 200 There are not many folds but a few waves The constrmerate appears to have heen a teach formation while the level was changing at many of the upper lie unconformably on each other above all are marine ter hory which I have not

get found in place, and which are advocatione emlanny a fossil cropidula and quite thon -The mountains back in The island are sometime according to Div. The E + SE shows of the Bay appear to be divile to quarty reins many the gooned island is of semilar Examine the acmaers, now april 5 in July season. The milt is dully, miltones gella is Levenne color. The ova, most amall bunches in the ovary na through they approach maturity The yell becomes yellow to

the outer parts cleaver with a brownish truje, at the same time the little masses become disintegrates and the ova about twice the diameter of those in the perst condition Timally the mirst matrice exhibit the yolk yellow with half of me side exhib-My an oval bourish olion speech The mucleus of the young shell, and slightly concave. The most mature are free fleat ing in the flueds of the animil close to The anal papilla and I have little doubt that they are extraded by the so called renal orfice though I have not get definitely traces the oursnot. at mo other point in the viviono are malure ova bound . The color of

There are transmitted one of the mech which I have not seen in alcoholic specimens.

There is but me wend the here probably no recol. mpice. The famuel shaper extension of the oracy runs along the cloaca for some distance but does not spen who it no for as I am asserve The renal race is composed of verniform gellowsh cheen n olive Mind occoult handling to carling in every direction and opening into a common dust The young 150 1) on wich bry are translucent when dish choped no spiral musleus.

The distenses ovisac is maye from tarker toward the anterior in . There are no capito pedal orfices I could not delect the smal orfree /a palina (or testurinalisi) but traces the matine ova through a very tender duck or memtranous canal to the deft of the anal cural, olose to where the renal orifice must he There are two pranges ared prominences, behind the head, one on each side of The neck - can't imagine - Their mature or office. have seen nothing like "them in alcoholic specimens - Unnal geller white except dark tentoses and mantle effect fort yellower & moder - Mus. cles of medal parts met-Gill short. These grow very lorge on the rootle here.

Small land shells a Pischeim H. pauper Hed. chersina bay, Arberta? Vitrina op. Popilla op anopeata?

Priene rymensis

Add mochaira patula Rights

Mandella Carta Brins

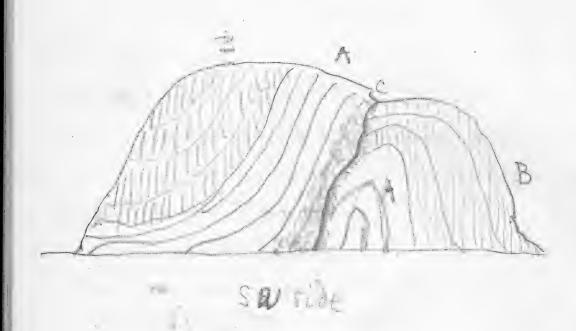
Septon? sp.

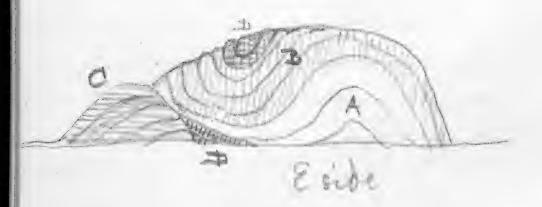
Litimas apprepated is large

masses copulating in tenoloppil

8-10

most of the shells here are mother colored & more procellanous + thicker than in Unalashka - Chry. Livalin cata, M. Diponier - Cars. Muttallic 2 macomas Sox donnes squalities. Soxicara aretica (red siphon and) a margarila like helicina Illorina Sithana + mitis Varpura canaliculata Hac machrochisma types stammen var ruber ata + dens astartes all very common or rocky beaches at townwater also rockeels not from in Unalastka as for as 9 have seen - Bud. Kurn cotti fragments and Volutopia pritty good mes - also Buc, mus. chianum + trasment classice





Examine the scology of the Roman Deland therough on the south and South west the presumment rock is a hard bluesh sandstone (A) with a variable dip (new The share SW 64?) from nearly level to perpendicular conlarning large clayer moduly and showing the effects of heat I freat presence with a tendency to split into curricul or acute angled six sides Hock or Acapments. It the south a fault in the strata occus on each orde of which (C) the over is broken into very. small preces which are me ted together with a matrix of yellowish calcule and then very of challedamic and drucy quarty The east of The

SW Handr - Sp. Sp.

fault the same rock A occurs but the upper part of which we soften (3) somewhat mucaceons of weathers yellowish bruin in some cases - is near the heach especially to Wo 3 + 22 & -Jassing around this corner of The island we come upon a mass of freenish perphyrile observe by header dipping SE 70° and passing under the "Santstones at (2) wherethey are very rollen & much looker up, herry evidently remains of the upper about probably faulter down and exhibit ing a post or two of nothing broken argillite. The fault extends ne of of the to the reach and on the other side of it the sandstones appear a pain much tolded.

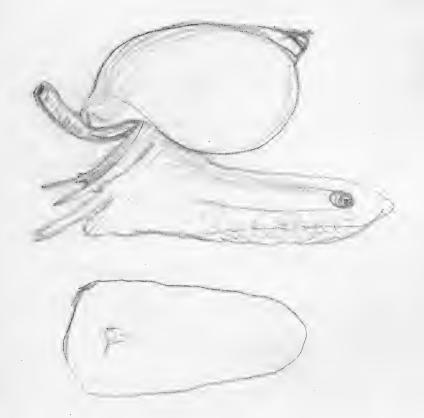
The lower sandsfore to appears Mulato, the upper de the The boom do of milato, the prophyrite to to that of the Majolink Sopka - at Koyukuk_ The bower edst. here (as there) exhibits obscure regitable remains and its upper hers (as at Whikuk) haves te but of different species from three of the Patage. The upper layer with erepidulas corres pends to those containing or shows + myfili of mulato -Mough this is not represwheten the island but across the Harbor-The upper bed (B) here are simple entimulations of the lower (A) which passes in sursibly into them and they are succeeded by the lightle heaving series +

1 1 1 1 1 1

lower & upper leaf beds_ all represented in the Juhan + Portage by the blue sandston while the fravel + englineer ate + most of the liquite are absent there april 10 - Examine the stratu in the East & bruth side of New Harbor South of the take portuge. The succession of the strata appear as follows (if (D) a black grambie rock (no.) not stratified but some What bedder very its curely dipping (as do all the strater here in general) 20° - 30° ESE 20h top of this the perphyrite (P) no certainly his concrest of the hiers of this personal In of the is long - an absoure bedding is perceptible in this rock also but not a righ

lar stratification. 3. above this enne had ten to 30 peet thick of conglowerate his (C) showing the effects of heat very strongly in some places readened tappearing as if takes but distinally stratified and very willen where expend 4-mext a her from 3 to fifth put thick of black sands stone (B) her much alters in places, but many disstant by stratified & in this lawinal. The plane surfaces of The lammae much harder than their troken edges and the result is a very biggers weathering of fallen plocks. This stratum continues all around new . Harter being much thicker meter white when it is also broken + the erevi

done I doney quarty before mentioned, in preat quantithis - It also weather into a great mumber of small which give the small low sound bluffs much the appearance of towers present for common from some prints of viewabove this stratum and to thicker where this is Thinnest is another ted of conformente (CN ho.) from 20 to co fut thick like hos but have especially toward the top where some angulaceous bands occur. Several miles & & a square topped hill of this rock verses its peculiarly formed apex to the presence of hers of cantotone the those



of which Round Island is mainly composed. This is the only patch of that rock visible on align to The East of new thankor It heing elsewhere evoded tossil word occurs in the breach some of it with the do borrings which guysust that the fossil wost forms here was drifted on! such while the land was simb my just previous to the deposition of the marine Tirtiary sandstones -Obtain some diving Nobetharpa surpullaces - on the musty gravel under large stones on Round Delay all the young was had opercula the adults had on head not in differently. The animal second mable to withdraw itself Wholly within the other. The

fait was broadly rounded before & farmewhat more routely behind-The color was wagen deepen my into warge in the sole + eiter of the boot upper parts Whitehis with black or dark purple - a depression in the mititle anterior party the sole like a snown Foot smorth edges bullions with a faintly impressed him in each site. From a sporge dredged by Capt Hall the same day apr II the a must remark able animal probably are annolid was taken. It was of the most billiant servlet there ghout, the same as the living sponge - It had no month eyes or ames weithe. The back was frounded oval like a Don's and transcersely

Augose with arborescent fills. Bottom of foot or mental side emosth defeat or transcrevery etriated - The spong dighot miged in mextratele con-Juston the whole farming a muss of a peaker two capacity growing motions in 3 forms water. Havington gres of to the & side of the island and yet a muniter of tercardelin Laparrisii, t'gronlandicam Machin falcala. Telline capit area, One small living Buccum Kennierthe, annual thile splusherwith black to chingordonico o pereuhun - macono incorrepione Bue glacible, Eyonneum our Voluthaspa ringentlacea Tornatina op. mod , verni cran hind, a headerner with a five trees excloring



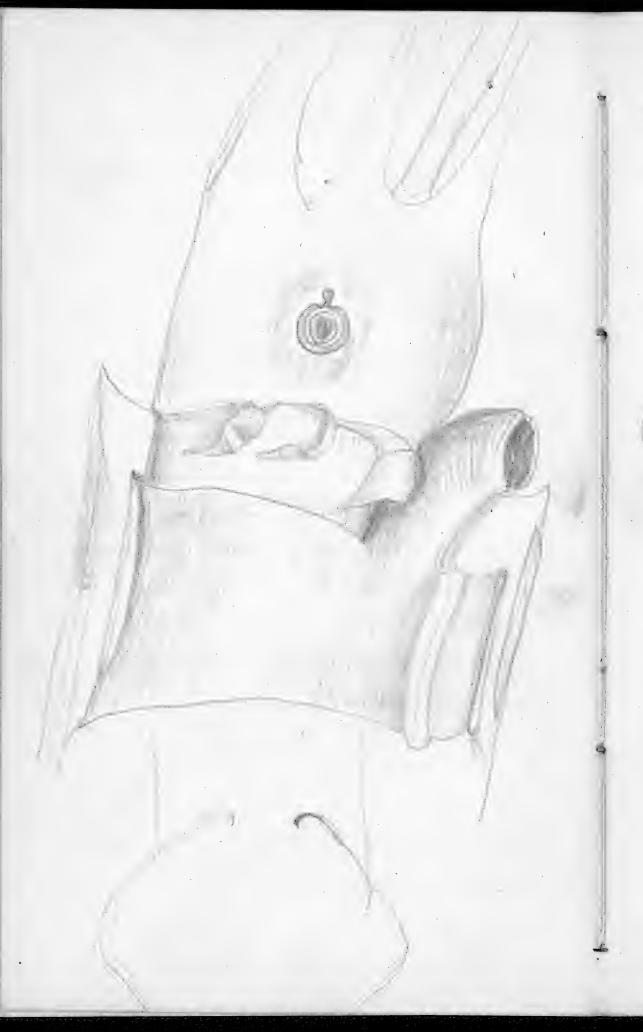
Bela Throphonop, dead T amphiesa corrugata typical I Woken speamen. also I ditte Machaera portula. ta lot of Echinadachuis beside two ababahells april 16. Capt Wall after a munter of unsuccessful at tempts obtains a specimen living & perfect of the remarkable sines tral buccurre form of which fragments have been obtained previous by here that Umalashka. The operantum is peanting of destral see small as not to cover the arrival when contracted to its corntest ability. The mantele is very large extending some distance over what on the right side of the aperture. 26



edge is smooth and entire That portion adjacent to the left hand side of the ager the is yellow white on the extreme edge, and inside of that deep willow or even brown ish but so densely laced with black streaks as to appear blackish. The other edge is yellowish while with a norgin. The siphoon is with short, blackish with a of the post is crange with a black marigin. The sides are Hackish with pale flecks, & gellowish toward the interret the Shell. They are rather rough and semigraticala teo. The head is small black, the tentrales short

black with while typs The eyes on their outer boll-satties. The protosies is large, influted & black. The comink appeared museular but shypish This specimen was less highly colored than the Muntashka trajments thicker and had a projection like a tooth opposite the unterior int of the columnella-This may be at normal. The fip was thickened The complete water hard follows - near Ronno Deland in The entrance of new Harton Unga Island.

Cattle Kick from they knowsplan week after Figure of many of Trul paper -75%, Lingth & Effective vertile endto other total und (f.) summered lift in Christ 26 - 20 1arms may be balance inche you - cylin Ancal 30 ms a more technologic enter fore endogs sellemile in hirs trives, in stanter particular with statement my mount the cup. moundables retracted who in alight yellow purchased many see which was mobiled in a lenger plain protocculike take. Evelor whitesh with reliberty as usual a raple without The outside of the armis downter there the real in order. Capit Hollo afection through mu-Benk, longue V proces yanne mered



May & - Hims another larger

I move perfect posteriorly

Body (e) in

To toots of tentacles (of in

Tempor edge flips 33. 2/4 in

the Widest part of 1, 22 in

width there of 1, 25½ in

between attachments 100 3½ and

Porch Fentacle in complete 43.

Aria 1, 23½in

Hear invallables to cellar.

Color restrict in line data
as while growns tall scale
by printed by hims black
and inch across the opening
which is not covered with this
that missimentary lids wills
z gellowish sive layers
of gellowish muscles had
like a coil of aprin year
Eurous talls mount the real

Minnes bicolor & Naema topus myer were observed but me specience my might at unalholila about 9 mms. The latter was oftainer with eggs ensederably incubates at Popoff Dellar Shuma gins Dime 20, also Stema macrina with eggs + Law lencipherus. a considerable number of specimens niner less injured, of Suntelin + Buc. Kennicottii wen obtained in the grass on the Paperf Do South also Mytilus edulis, Starrbella sp. mod, modiolus, acmaca patina mitra + persona. Card. Wittallie Chry, heaters, Argotroconcernor comme Volitopses Berry Maema of Card . Kapermin, Boro . cyanemine + paciale + "some contes in other dance The west shore of Popul velous is of black basaltic lava Mich also treatesthrough browning oregonerses, single erect on vocks parallelopipedal

and partly over flows the hori-E show of nunga greatly meturnsphosing those to the north of the lave mus while those to the with are little charges even dose to the lara -Tune 24, nisit the morth and of Popoffsky to examine into the Joseiliferons layer reported by elle Hodgkins - Fins them well exproved on the high theff about to middle of the north aide. The fosseliferons layer is quite their mining from be in to two feet and corner ponds in position with lager e of the contracts in the north Harbord unga It is however separates from The conformerate strata above x below by a layer from ten to twenty have

feet thick I sand havily hard enough to the called sundstone above the conglimente which is taked talkently heart is on hed threehin dred feet thick of lava and volcanic breccia differing every few feet horizontally and vertically in its exact composition the wiver part seems more like a corted con. glomerale of pieces of prophyrite with a rasulthe matrix while the upper portion is compand in part of sharp fragments of prophyrite & attente converted by atten glossy witherns lava -This completes the key to the dystern of whany hed of the worth part

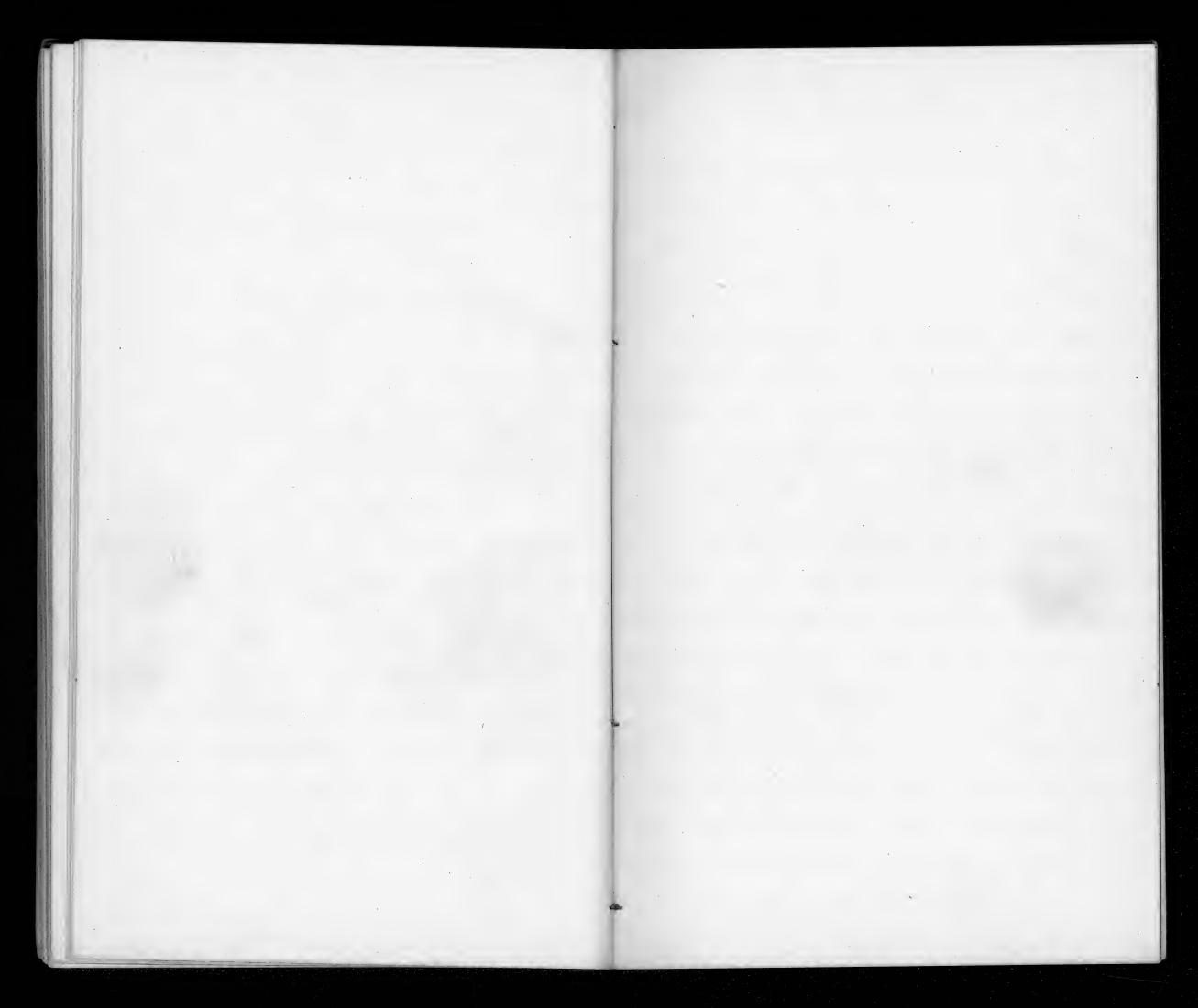
of the torritory, The strate has a dep of ten to 15 terres · to the earthward and were conformable. The truest visible was the conglim erate layer corresponding to the previously mentions layer denominated D is the Cral Harry hedstained principally ogs two like, overginica, crepidula, Galeria, Pecter modiola + modiolara and some for inteterminale justerrood, no like a drillia another some what like a chrysotonous - all except the oysters rather scarce many gysters were tree by Clivan and the shells of all kinds were in pretty

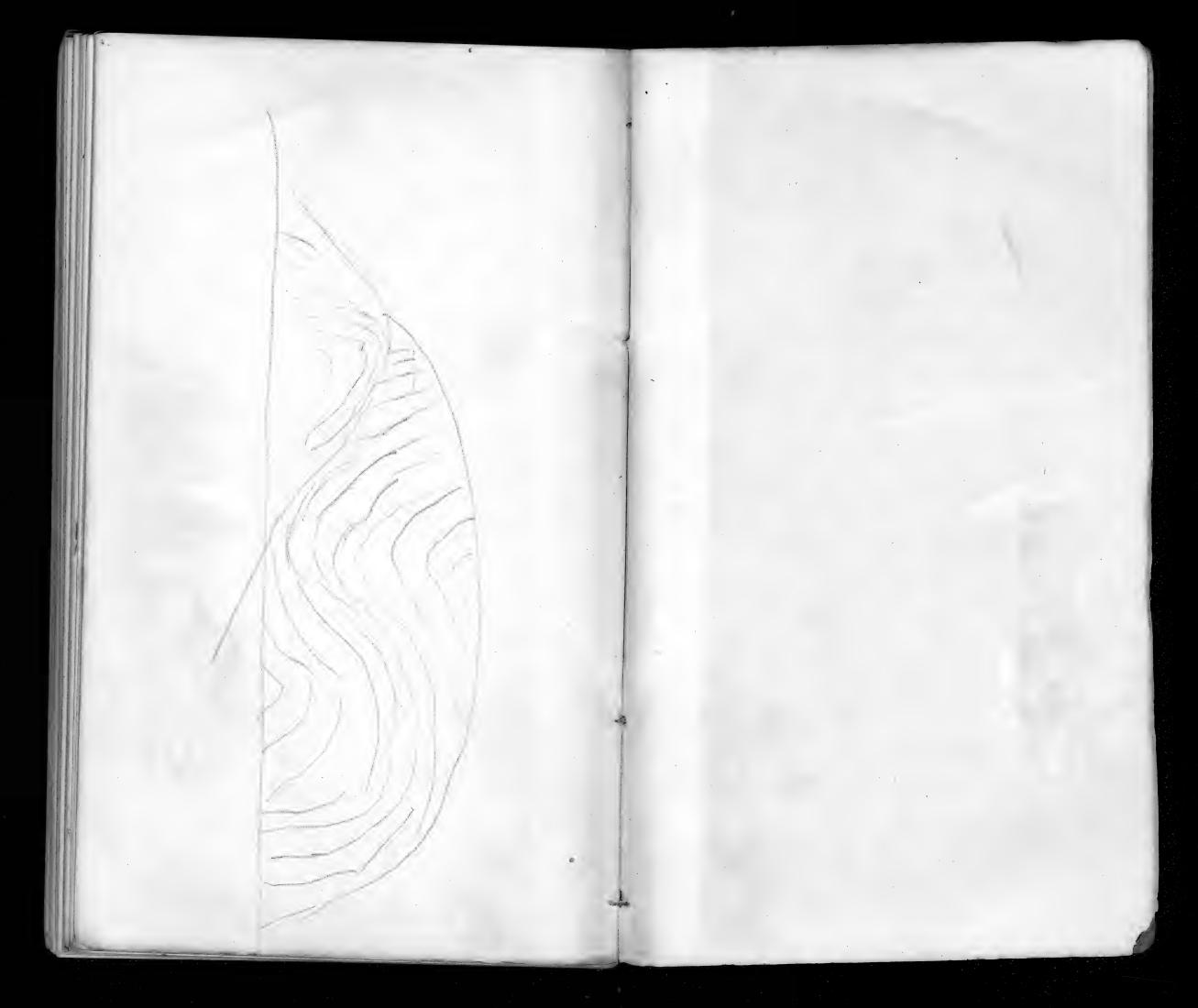
good preservation targed with pragments of vegetable matter much of it contin ged tome silicipied. The matrix was a sand rock sometimes angellaceour enough to approach shale in character-Sandon Harbor- Magae I)aug. 172 The gerlogical characters of the middle portion of the solaris are as Jollows. The strata at the surface are metamosphie sandstones & states generally dipping to the westward but arranged in waves having their longer axes about nne +88W. sometimes faults but in general pritty regular and vocasionally an expression perpenticular to the aps shows the wave complete t antrohen. The elates & santish

are intermingled in bed of iregular Thickness & bilhologic cal character as in unallered mixed strata of the some nature. Most of them are exceedingly hard. They an entiruously exposed in several directions to the tright of thickness of ator just or more hit the average breath of the waves will aver is not less than 5000 feet. The lines of stratification are distinctly prarked. · above these states toon formable with them, in a year broalities mostly much elevated or on the western expertite Island, an some of The Mya sanistone The lower senes, There use to beggen above

Dorpore Harry and near + at Primacle Point The Jocks of the Popmade are of course sourtstone, and cut up by lava veins in every direction but not much metamorphoses notossils have been Journ though carefully tought for Truster south, on the shows M. Eagle Houter and The western part of Fealmouth Hartor Eunilar rocks an express much faulted teentor bet at the latter broability at the hear of the hos latter bays, mountain masses of granite are uphibited but the soil and lux mont growth of herty prevented me from tracing out the ammetrian between

the metamorphic rocks of the granite. The two somes are apparently not em granable. The goneral course trans to of the stratificarrows is sim was to that on The island to the west ward thya Popoff to-In Unalashka we have in the interior the ottens congloments & shalls eging unconformably on eyente with a surround ing of perphyrites. In they a we have them hyang importantly on the poply nto and worken up by in justed luvers - Here in napre they he in the mela morphic states de for the first time conformally-





94. 195. 339 103 158 135 190 125 192 4,705 153.705 153.705 153.705 153.705 147.05 147.05 147.05

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520 1/2 2 15/2 Lake Surychely Miles

